

UNITED STATE DEPARTMENT OF COMMERCE United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	AT	TORNEY DOCKET NO.	
09/879,71	06/12/	01 BATES	J	P04852US0	
-		EXAMINER			
022885 HM22/0913 ' ZARLEY MCKEE THOMTE VOORHEES & SEASE PLC			MELLER, M		
SUITE 320	00	ART UNIT	PAPER NUMBER		
) AVENUE SS IA 50309	1651	3		
			DATE MAILED:	09/13/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Applicatio	n No.	Applicant(s)					
Office Action Summary				BATES ET AL.					
		09/879,71 Examiner		Art Unit					
	emet near cannary		Mollor	1651					
	- The MAILING DATE of this communication app	Michael V.			dress				
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)	Responsive to communication(s) filed on								
2a)□		mis action is	non-final.						
3)									
Disposition of Claims									
4) Claim(s) 1-11 is/are pending in the application.									
4a) Of the above claim(s) <u>9-11</u> is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)⊠ Claim(s) <u>1-8</u> is/are rejected.									
7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9)☐ The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No.									
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	<u>2</u> .	4) Interview Summar 5) Notice of Informal 6) Other:						

Art Unit: 1651

6 3 1

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-8, drawn to a method of using an S-alkylthiol, classified in class
 514, subclass 706, for example.
- II. Claims 9-11, drawn to an S-alkylthiol and a pharmaceutically acceptable carrier, classified in class 514, subclass 706, for example.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a materially different process such as treating inflammation in the mouth, for example.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention:



Art Unit: 1651

. . .

The species as listed in claims 2 and 3.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Edmund Sease on 8/28/2001 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-8

Art Unit: 1651

. 1 1

and S-methylcysteine and S-methyl-L-cysteine as the elected species. Affirmation of this election must be made by applicant in replying to this Office action. Claims 9-11 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 is vague and indefinite since it recites "the dose ranges from 100mg."

The range has no upper limit. Such a "range" must have an upper and lower limit. It would be clearer if applicant amended the claim to read that the range is from 100mg to 10 grams as set forth on page 5 of the instant specification.

Art Unit: 1651

. 4.2

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 2, 7 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Meisner.

Meisner teaches that a composition containing among other ingredients, an antiinflammatory substance, specifically, S-methylcysteine is administered to a patient, see
abstract, col. 5, lines 3-27, col. 6, lines 6-8 and 57-67 and the claims. Even though the
composition is administered to the patient for a different reason in the reference, it
would have been inherent to the process of Meisner that nitric oxide synthesis is
inhibited since the steps of the processes (Meisner and the instant application) are the
same. All the process requires is that the S-methylcysteine is administered to a patient.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Meisner.

Art Unit: 1651

Meisner teaches that a composition containing among other ingredients, an antiinflammatory substance, specifically, S-methylcysteine is administered to a patient, see
abstract, col. 5, lines 3-27, col. 6, lines 6-8 and 57-67 and the claims. Even though the
composition is administered to the patient for a different reason in the reference, it
would have been inherent to the process of Meisner that nitric oxide synthesis is
inhibited since the steps of the processes (Meisner and the instant application) are the
same. All the process requires is that the S-methylcysteine is administered to a patient.

It is not clear from the reference if the S-methylcysteine is in S-methyl-L-cysteine form and it is not clear if the S-methylcysteine is in a pharmaceutically acceptable salt form. If the composition does not contain S-methyl-L-cysteine or is not in pharmaceutically acceptable salt form, then it would have been obvious to use either of these since L forms of amino acids are well known to exist in the body and pharmaceutically acceptable salt forms of amino acids are well known in the art since such salts are routinely used in pharmaceutically preparations to improve solubility, for example.

Thus, the claimed subject matter is anticipated by the reference or in the alternative, obvious over the cited reference.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 703-308-

Art Unit: 1651

4230. The examiner can normally be reached on Monday thru Friday: 10:30am-

7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 703-308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0294 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

MVM

September 10, 2001

Michael Meller Patent Examiner Art Unit 1651 Page 7